

Form PTO-1449 Modified List of Patents and Publications Submitted by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. ISIS-2508	Serial No. 08/877,317
	Applicant Phillip Dan Cook	
	Filing Date June 17, 1997	Group Not Yet Assigned

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
L	AA	3,687,808	08/29/72	Merigan, Jr. et al	435	91.3
L	AB	4,908,307	03/13/90	Rodland et al	435	6
L	AC	5,013,830	05/07/91	Ohtsuka et al.	536	25.1
L	AD	5,134,066	07/28/92	Rogers et al.	435	91.3
L	AE	5,149,797	11/22/92	Pederson et al.	536	23.1

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Examiner Initial		Document No.	Date	Country	Translation YES	NO

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 3/4/99
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<i>h</i>	AF	0 339 330	11/28/90	EPO		X
<i>h</i>	AG	2,017,369	11/24/90	Canada	X	
<i>h</i>	AH	3-240795	10/29/91	Japan		X
<i>h</i>	AI	39 15 462 A1	09/06/90	Germany	X	
<i>h</i>	AJ	41 10 085	10/01/92	Germany	X	
<i>h</i>	AK	0 260 032	03/16/88	EPO	X	
<i>h</i>	AL	0 339 842	11/02/89	EPO		
<i>h</i>	AM	WO 91/06556	05/16/91	PCT	X	
<i>h</i>	AN	WO 91/15499	10/17/91	PCT	X	
	AO	PCT/EP91/01811		PCT		
	AP	WO 92/20702	11/26/92	PCT	X	
<i>h</i>	AQ	WO 93/13121	12/23/92	PCT	X	
<i>h</i>	AR	WO 91/12323	08/22/91	PCT	X	
<i>h</i>	AS	WO92/20703	11/26/92	PCT	X	
	AT	PCT/US90/02749	1990	PCT		
<i>h</i>	AU	WO 90/15814	12/27/90	PCT	X	
<i>h</i>	AV	WO 86/05518	09/25/86	PCT WO	x	
EXAMINER <i>h</i> <i>h</i>			DATE CONSIDERED <i>3/24/99</i>			

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
✓	AW	Agrawal et al., "Oligodeoxynucleoside Phosphoramidates and Phosphorothioates as Inhibitors of Human Immunodeficiency Virus", 1988, PNAS USA, 85, 7079-7083	
✓	AX	Akashi et al., "New Aspects of Polymer Drugs", Adv. Polym. Sci., 1990, 97, 108-146	
✓	AY	Beaton et. al., Chapter 5, "Synthesis of oligonucleotide phosphorodithioates", Oligonucleotides and Analogs, A Practical Approach, Eckstein, F., Ed.; The Practical Approach Series, IRL Press, New York, 1991, 109	
✓	AZ	Borer et al., "Stability of Ribonucleic Acid Double-Stranded Helices", J. Mol. Biol., 1974, 86, 843-853	
✓	BA	Brill et al., "Synthesis of Deoxydinucleotide Phosphorodithioates", J. Am. Chem. Soc., 1991, 113, 3972-3980	
✓	BB	Buttrey et al., "Synthetic Analogues of Polynucleotides-XIII, The Resolution of DL-β-(Thymin-1-YL)Alanine and Polymerisation of the β-(Thymin-1-YL) Alanines", Tetrahedron, 1975, 31, 73-75	
✓	BC	Capon et al., "Complete Nucleotide Sequences of the T24 Human Bladder Carcinoma Oncogene and Its Normal Homologue", Nature, 1983, 302, 33-37	
✓	BD	Cohen, "Oligodeoxynucleotides" Published 1989 by CRC Press, Inc., Boca Raton (FL) pages 1-255 (Note pages 16, 35, 36, 38, 55, 62, 66, 67, 79-82, 85)	
✓	BE	Concise Encyclopedia Of Polymer Science And Engineering, J.I. Kroschwitz, Ed. John Wiley & Sons, 1990, 858-859	
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<i>✓</i>	BF	Dagle et al., "Targeted Degradation of mRNA in xenopus Oocytes and Embryos directed by modified oligonucleotides: Studies of An2 and Cyclin in Embryogenesis", <i>Nucl. Acid Res.</i> , 1990, 18, 4751-4757	
<i>✓</i>	BG	Dagle et al., "Physical Properties of Oligonucleotides Containing Phosphoramidate-Modified Internucleoside Linkages", <i>Nucl. Acids Res.</i> , 1991, 19, 1805-1810	
<i>✓</i>	BH	Dagle et al., "Pathways of Degradation and Mechanism of Action of Antisense Oligonucleotides in Xenopus Laevis Embryos", <i>Antisense Research and Development</i> , 1990, 1, 11-20	
<i>✓</i>	BI	De Koning et al., "Unconventional Nucleotide Analogues V. Derivatives of 6-(1-pyrimidinyl)-and 6-(9-purinyl)-2-aminocaproic acid", <i>Recueil</i> , 1971, 90, 874-884	
<i>✓</i>	BJ	Demidov et al., "Sequence Selective Double Strand DNA Cleavage by Peptide Nucleic Acid (PNA) Targeting Using Nuclease S1", <i>Nucl. Acids Res.</i> , 1993, 21(19), 2103-2107	
<i>✓</i>	BK	Depto et al., "Regulated Expression of the Human Cytomegalovirus pp65 Gene: Octamer Sequence in the Promoter Is Required for Activation by Viral Gene Products," <i>J. Virol.</i> , 1989, 63, 1232-1238	
<i>✓</i>	BL	Doel et al., "The Synthesis of Peptides Containing Purine and Pyrimidine Derivatives of DL-Alanine", <i>Tetrahedron</i> , 1974, 30, 2755-2759	
<i>✓</i>	BM	Doel et al. "An Approach to the Synthesis of Peptide Analogues of Oligonucleotides (Nucleopeptides)", <i>Tetra. Lett.</i> , 1969, 27, 2285-2288	
<i>✓</i>	BN	Dubochet et al., "A New Preparation Method for Dark-Field Electron Microscopy of Biomacromolecules," <i>J. Ultrastruct. Res.</i> , 1971, 35, 147-167	
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	BO	Eder et al., "Ribonuclease H from K562 Human Erythroleukemia Cells", <i>J. Biol. Chem.</i> , 1991, 266, 6472-6479	
<i>h</i>	BP	Egholm, "Peptide Nucleic Acids Containing Adenine or Guanine Recognize Thymine and Cytosine in Complementary DNA Sequences", <i>J. Chem. Soc., Chem. Commun.</i> , 1993, 800-801	
<i>h</i>	BQ	Egholm et al., "Peptide Nucleic Acids (PNA). Oligonucleotide Analogues with an Achiral Peptide backbone," <i>J. Am. Chem. Soc.</i> , 1992, 114, 1895-1897	
<i>h</i>	BR	Englisch, U. and Gauss, D.H., "Chemically Modified Oligonucleotides as Probes and Inhibitors", <i>Angewandte Chemie, International Edition</i> , 1991, 30, 613-629	
<i>h</i>	BS	Froehler et. al., "Oligodeoxynucleotides Containing C-5 Propyne Analogs of 2'-Deoxyuridine and 2'-Deoxycytidine," <i>Tetra. Lett.</i> , 1992, 33, 5307-5310	
	BT	Greenberg, in Current Protocols in Molecular Biology, (F.M. Ausubel, R. Brent, R.E. Kingston, D.D. Moore, J.A. Smith, J.C. Seidman and K. Strahl, eds., John Wiley and Sons, NY *)	
<i>h</i>	BU	Hahn et al., "Molecular cloning and characterization of the HTLV-III virus associated with AIDS", <i>Nature</i> , 1984, 312, 166-169	
<i>h</i>	BV	Hall and Brown, "Human N-ras: cDNA Cloning and Genes Structure", <i>Nucleic Acids Res.</i> , 1985, 13, 5255-5268	
<i>h</i>	BW	Hanvey et al., "Antisense and Antigene Properties of Peptide Nucleic Acids", <i>Science</i> , 1992, 258, 1481-1485	
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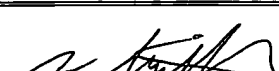
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✓	BX	Huang et al. "Acyclic Nucleic Acid Analogues: Synthesis and Oligomerization of γ ,4-Diamino-2-oxo-1(2H)-pyrimidinepentanoic Acid and σ 4-Diamino-2-oxo-1(2H)-pyrimidinehexanoic Acid", <i>J. Org. Chem.</i> , 1991, 56, 6007-6018	
✓	BY	Inaki et al., "Functionality and Applicability of Synthetic Nucleic Acid Analogs", In Current Topics in Polymer Science; Ottenbrite, Utracki, Inoue, Eds. Munich; New York : Hanser Publishers; New York : Distributed in the U.S.A. by Macmillan Pub. Co., 1987, 1, 80-100	
✓	BZ	Inaki, "Synthetic Nucleic Analogs", <i>Prog. Polym. Sci.</i> , 1992, 17, 515-570	
✓	CA	Inoue et al., "Synthesis and properties of novel nucleic acid probes", <i>Nuc. Acids Res. Symposiou Series</i> , 1985, 16, 165	
✓	CB	Inoue et al., "Synthesis and Hybridization Studies on Two complementary NONa(2'-O-methyl)ribonucleotides" <i>Nucl. Acids Res.</i> , 1987, 15, 6131-6148	
✓	CC	Inoue et al., "Sequence-dependent hydrolysis of RNA using mOdified Oligonucleotide Splints and R Nase H.", <i>FEBS Lett.</i> , 1987, 215, 327-330	
✓	CD	Kahn et al., "The c-K-ras Gene and Human Cancer (Review)", <i>Anticancer Res.</i> , 1987, 7, 639-652	
✓	CE	Kawasaki et al., "Uniformly modified 2'-Deoxy-2'fluoro Phosphorothioate Oligonucleotides as nuclease-Resistant Antisense Compounds with High Affinity and Specificity for RNA Targets," <i>J. Med. Chem.</i> , 1993, 36, 831-841	
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✓	CF	Kawasaki et al., "Synthesis and Biophysical Studies of 2'-dR1B0-2'-F Modified Oligonucleotides", 1991, 1-9	
✓	CG	Kingston, in Current Protocols in Molecular Biology, (F.M. Ausubel, R. Brent, R.E. Kingston, D.D. Moore, J.A. Smith, J.C. Seidman and K. Strahl, eds.), John Wiley and Sons, NY *	
✓	CH	Lal et al., "Diphenylphosphoryl Azide A Novel Reagent for the Stereospecific Synthesis of Azides from Alcohols," Tetra. Lett., 1977, 23, 1977-1980	
✓	CI	Lima et al., "Implication of RNA Structure on Antisense Oligonucleotide Hybridization Kinetics", Biochemistry, 1991, 31, 12055-12061	
✓	CJ	Lu et al., "Synthesis of Polyesters Containing Nucleic Acid Base Derivatives as Pending Side Chains", J. Polym. Sci., 1986, 24, 525-536	
✓	CK	McCurdy et al., "Deoxyoligonucleotides with Inverted Polarity: Synthesis and Use in Triple-Helix Formation," Nucleosides and Nucleotides, 1991, 10, 287-290	
✓	CL	Miller and Ts'0, "A new approach to chemotherapy based onm olecular biology and nucleic acid chemistry: Matagen (masking tape for gene expression)", Anti-Cancer Drug Design, 1987, 2, 117-128	
✓	CM	Miller et al., Annual Reports in Medicinal Chemistry 23, "Oligonucleotide Inhibitors of Gene Expression in Living Cells: New Opprotunities in Drug Design", 1988, Ch. 30, 295-304	
✓	CN	Monia et al., "Evaluation of 2'-Modified Oligonucleotides Containing 2'-Deoxy Gaps as Antisense Inhibitors of Gene Expression", J. Bio. Chem., 1993, 268, 14514-14522	
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✓	CO	Nagae et al., "Functional Monomers and Polymers. CLIV. Application of Nucleic Acid Base Containing Polymers to High Performance Liquid Chromatography," <i>J. Polym. Sci.</i> , 1989, 27, 2593-2609	
✓	CP	Nielsen et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide," <i>Science</i> , 1991, 254, 1497-1500	
✓	CQ	Nollet et al., "Unconventional Nucleotide Analogues-III, 4-(N ₁ -Pyrimidyl)-2-Aminobutyric Acids", <i>Tetrahedron</i> , 1986, 25, 5989-5994	
✓	CR	Nollet et al., "Unconventional Nucleotide Analogues-II, Synthesis of the Adenyl Analogue of Willardiine", <i>Tetrahedron</i> , 1969, 25, 5983-5987	
✓	CS	Nollet et al., "Unconventional Nucleotide Analogues-I, N ₉ -Purinyl α-Amino Acids", <i>Tetrahedron</i> , 1969, 25, 5971-5981	
✓	CT	Nollet et al., "Michael Addition of 4-O-Ethyluracil. A Method for Specific N ₁ -Alkylation of Hydroxypyrimidines", <i>Tetra. Lett.</i> , 1969, 53, 4605-4606	
—	CU	Oligonucleotides and Analogs, A Practical Approach, Eekstein, F., Ed., The Practical Approach Series, IRL Press, New York, 1991 *	
—	CV	Oligonucleotides: Antisense Inhibitors of Gene Expression, CRC Press, Inc., Boca Raton, Fl, 1989 *	
✓	CW	Owen et al., "Transcriptional Activation of a Conserved Sequence Element by RAS Requires a Nuclear Factor Distinct from C-fos or C-jun", <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 1990, 87, 3866-3870	
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<i>h</i>	CX	Petersen et al., "Chemical Synthesis of Dimer Ribonucleotides Containing Internucleotidic Phosphoradithioate Linkages", <i>Tetra. Lett.</i> , 1990, 31, 911-914	
<i>h</i>	CY	Petersheim and Turner, "Base-Stacking and Base-Pairing Contributions to Helix Stability Thermodynamics of Double-Helix Formation with CCGG, CCGGp, CCGGAp, ACCGGp, CCGGUp, and ACCGGUp", <i>Biochemistry</i> , 1983, 22, 256-263	
<i>h</i>	CZ	Pitha et al., "Inhibition of Murine Leukemia Virus Replication by Poly(vinyluracil) and Poly(vinyladenine)", <i>Proc. Natl Acad. Sci. USA</i> , 1973, 70, 1204-1208	
<i>h</i>	DA	Pitha, "Physiological Activities of Synthetic Analogs of Polynucleotides", <i>Adv. Polym. Sci.</i> , 1983, 50, 1-16	
<i>h</i>	DB	Puglisi and Tinoco, "Absorbance Melting Curves of RNA", <i>Methods in Enzymol.</i> , 1989, 180, 304-325	
<i>h</i>	DC	Reddy et al., "A Point Mutation is Responsible for the Acquisition of Transforming Properties by the T24 Human Bladder Carcinoma Oncogene", <i>Nature</i> , 1982, 300, 149-152	
<i>h</i>	DD	Sagi et al., "Base-Modified Oligodeoxynucleotides. I. Effect of 5-Alkyl, 5-(1-Alkenyl) and 5-(1-Alkynyl) Substitution of the Pyrimidines on Duplex Stability and Hydrophobicity", <i>Tetra. Lett.</i> , 1993, 34, 2191-2194	
<i>h</i>	DE	Saison-Behmoaras et al., "Short Modified Anti-sense Oligonucleotides Directed Against Ha-ras Point Mutation Induce Selective Cleavage of the mRNA and Inhibit T24 Cells Proliferation", <i>EMBO J.</i> , 1991, 10, 1111-1118	
<i>h</i>	DF	Simon et al., "Peptoids: A modular approach to drug discovery", <i>Proc. Natl. Acad. Sci. USA</i> , 1992, 89, 9367-9371	
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<i>L</i>	DG	Spalholtz et al., "Bovine papillomavirus Transcriptional Regulation: Localization of the E2-Responsive Elements of the Long Control Region," <i>J. Virol.</i> , 1987, 61, 2128-2137	
<i>L</i>	DH	Stawinski Jacek, et al., <i>Tenth International Roundtable: Nucleosides, Nucleotides and Their Biological Evaluation</i> , September 16-20, 1992, Abstracts of Papers, Abstract 80	
<i>L</i>	DI	Stenberg et al., "Promoter-Specific trans Activation and Repression by Human Cytomegalovirus Immediate-Early Proteins Involves Common and Unique Protein Domains", <i>J. Virol.</i> , 1990, 64, 1556-1565	
<i>L</i>	DJ	Tabin et al., "Mechanism of Activation of a Human Oncogene", <i>Nature</i> , 1982, 300, 143-149	
<i>L</i>	DK	Takemoto et al., "Synthetic Nucleic Acid Analogs. Preparation and Interactions", <i>Adv. Polym. Sci.</i> , 1981, 41, 1-51	
<i>L</i>	DL	Taparowsky et al., "Activation of the T24 Bladder Carcinoma Transforming Gene is Linked to a Single Amino Acid Change", <i>Nature</i> , 1982, 300, 762-765	
<i>L</i>	DM	Tibanyenda et al., "The effect of single base-pair mismatches on the duplex stability of d(T-A-T-T-A-A-T-A-T-C-A-A-G-T-T-G) . d(C-A-A-C-T-T-G-A-T-A-T-T-A-A-T-A)," <i>Eur. J. Biochem.</i> , 1984, 139, 19-27	
<i>L</i>	DN	Uhlmann et al. "Antisense Oligonucleotides: A New Therapeutic Principle", <i>Chem. Rev.</i> , 1990, 90, 544-584	
EXAMINER <i>SA</i> <i>Full</i>		DATE CONSIDERED 3/4/88	

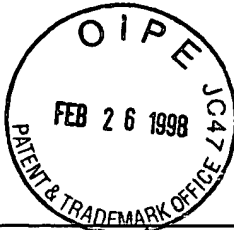
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L	DO	Vasseur et al., "Oligonucleosides: Synthesis of a Novel Methylhydroxylamine-Linked Nucleoside Dimer and Its Incorporation into Antisense Sequences," <i>J. Am. Chem. Soc.</i> , 1992, 114, 4006-4007	
L	DP	Vickers et al., "Inhibition of HIV-LTR gene expression by oligonucleotides targeted to the TAR element," <i>Nucl. Acids Res.</i> , 1991, 19, 3359-3368	
L	DQ	Weller et al., "Molecular Modeling of Acyclic Polyamide Oligonucleotide Analogues", <i>J. Org. Chem.</i> , 1991, 6000-6006	
L	DR	Jasenka Matulic-Adamic et al., "Nucleosides. 150. Synthesis and Some Biological Properties of 5-Monofluoromethyl, 5-Difluoromethyl, and 5-Trifluoromethyl Derivatives of 2'-Deoxyuridine and 2'-Deoxy-2'-fluoro- β -D-arabinofuranosyluracil", <i>J. Med. Chem.</i> , 31, (1988), 1642-1647	
L	DS	Wu-Pong, "Oligonucleotides: Opportunities for Drug Therapy and Research", <i>Pharm. Tech.</i> , 1994, 102	
L	DT	Gura, <i>Science</i> , 1995, 270, 575-577	
L	DU	Stein et al., <i>Science</i> , 1993, 261, 1004-1012	
L	DV	Wagner, <i>Nature</i> , 1994, 372, 333-335	
L	DW	Stull et al., <i>Pharm. Res.</i> , 1995, 12(4), 465-483	
L	DX	Ikehara et al., <i>Nucl. Acids Res.</i> , 1977, 4(12), 4249-4260	
L	DY	Agrawal et al., "Oligodeoxynucleosidsis Methylphosphonates: Synthesis and Enzymic Degradation", <i>Tetra. Lett.</i> , 1987, 28(31), 3539-3542	
L	DZ	Koziolkiewicz et al., <i>Chemica Scripta</i> , 1986, 26, 251-260	
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	AA	Almarsson, Ö. et al., "Peptide nucleic acid (PNA) conformation and polymorphism in PNA-DNA and PNA-RNA hybrids", <i>Proc. Natl. Acad. Sci. USA</i> , 1993, 90, 9542-9546	
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<i>AB</i>	AB	WO 93/12129	06/24/93	PCT WO	-	-		
<i>AC</i>	AC	WO 95/01369	01/12/95	PCT WO	-	-		
<i>AD</i>	AD	WO 95/08556	03/30/95	PCT WO	-	-		

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